

CLAIMS

What is claimed is:

1. Squirrel-cage rotor (1), comprising squirrel-cage rotor conductors (3) and a carrier (5) for the squirrel-cage rotor conductors (3), with the carrier (5) being provided with axial slots (9) for accommodating the squirrel-cage rotor conductors (3), characterized in that an axial slot (9) having at least one closed slot portion (11) and an open slot portion (13), with the open slot portion (13) located between the closed slot portion (11) and a cage ring (15).
2. Squirrel-cage rotor (1) according to claim 1, characterized in that the open slot portion (13) has an opening which is located in the radially outer region (17) of the axial slot (9).
3. Squirrel-cage rotor (1) according to claim 1 or 2, characterized in that the open slot portion (13) has an opening which is located in the radially inner region (19) of the axial slot (9).
4. Squirrel-cage rotor (1) according to one of the claims 1 to 3, characterized in that the axial slot (9) has a wedge-shaped or parallel-shaped cross section.
5. Squirrel-cage rotor (1) according to one of the claims 1 to 4, characterized in that the squirrel-cage rotor conductor (3) is a cast squirrel-cage rotor conductor (3).
6. Squirrel-cage rotor (1) according to one of the claims 1 to 5, characterized in that the squirrel-cage rotor conductor (3) is a bar conductor (27).

7. Squirrel-cage rotor (1) according to one of the claims 1 to 6, characterized in that the carrier (5) is disposed immediately adjacent to the cage ring.
8. Squirrel-cage rotor (1) according to one of the claims 1 to 8, characterized in that the carrier (5) includes soft-magnetic material.
9. Electric machine comprising a squirrel-cage rotor (1) according to one of the claims 1 to 8.
10. Method of making a squirrel-cage rotor (1) having a carrier (5) for squirrel-cage rotor conductors (3), with the carrier (5) having closed slots (9), wherein the squirrel-cage rotor conductors (3) are cast into the slots or inserted therein as bars, whereupon carrier material is removed in the area of the end surfaces (29) of the carrier (5) in such a way that an open slot portion (13) is formed.
11. Method according to claim 10, characterized in that material of the carrier (5) as well as also material of the squirrel-cage rotor conductor (3) is removed.
12. Method according to one of the claims 10 to 11, characterized in that the cage rings (15) are cast jointly with the casting of the squirrel-cage rotor conductors (3).
13. Method according to one of the claims 10 to 12, characterized in that a squirrel-cage rotor (1) is made according to one of the claims 1 to 8.